

## SEQUENCE LISTING

<110> Vogels, Ronald  
Havenga, Menzo  
Bout, Abraham

<120> Gene delivery vectors provided with a tissue tropism for  
smooth muscle cells, and/or endothelial cells

<130> 2183-4231US

<140> US 09/444,284

<141> 1999-11-19

<150> EP 98203921.6

<151> 1998-11-20

<160> 24

<170> PatentIn version 3.0

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<221> misc\_feature

<223> Description of Artificial Sequence: primer

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<223> Description of Artificial Sequence: primer

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<221> misc\_feature

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<223> /note="Knob nucleotide 2"

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<210> 8

<211> 36

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: primer

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<223> /note="Knob nucleotide 3"

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<223> Description of Artificial Sequence: primer

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<223> /note="Knob nucleotide 4"

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<223> Description of Artificial Sequence: primer

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<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: primer

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<221> misc\_feature

<223> /note="Knob nucleotide 6"

<400> 11  
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<210> 12

<211> 37

<212> DNA

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<223> Description of Artificial Sequence: primer

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<210> 13

<211> 30



<212> DNA

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<223> Description of Artificial Sequence: primer

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<223> /note="Knob nucleotide 8"

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<210> 14

<211> 42

<212> DNA

<213> Artificial Sequence

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<221> misc\_feature

<223> Description of Artificial Sequence: primer NY-UP

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<210> 15

<211> 19

<212> DNA

<213> Artificial Sequence

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<221> misc\_feature

<223> Description of Artificial Sequence: primer NY-DOWN

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19

<210> 16

<211> 1746

<212> DNA

<213> Adenoviridae

<220>

<221> misc\_feature

<223> /note="Ad5 chimeric fiber"

<400> 16

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gagagtcccc ctggggtact ctctttgcgc ctatccgaac ctctagttag ctccaatggc 180

atgcttgccg tcaaaatggg caacggcctc tctctggacg aggccggcaa ccttacctcc 240

caaaatgtaa ccactgtgag cccacctctc aaaaaaacca agtcaaacat aaacctggaa 300

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attaactaca acaaggccct ttacttgttt acagcttcaa acaattccaa aaagcttgag 960  
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gaaacaggag acacaactcc aagtgcatac tctatgtcat ttctatggga ctggtctggc 1680  
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<210> 17  
<211> 1752  
<212> DNA  
<213> Adenoviridae  
<220>  
<221> misc\_feature  
<223> /note="Ad5/fib12 chimeric fiber"  
  
<220>  
<221> misc\_feature  
<222> (1722)..(1722)  
<223> n can be any nucleotide

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aaaccaccag gtgtattagc acttaattac aaagacccca ttgtaactga aaatggaacc 180  
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agcgcccccc tagcagtaaa ggctagtgcc ctccactta acacaagagc gcccttaacc 360  
acaacggatg aaagcttagc cttaataacc gccccctcca ttacagtga gtcttcgcgt 420  
ttgggccttg ccaccatagc ccctctaagc ttagatggag gtggaaacct aggtttaaat 480  
ctttctgctc ccctggacgt tagtaacaac aatttgcac tcaccactga aaetccetta 540  
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aacgctctta ccctacctac ggcagatccg ttaatggtga gctccgatgg gttgggaata 660  
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tttaatggca ttacgtcgct aaatggatac tctttaacat tcatgtggtc aggtctatca 1680  
aactatataa atcagccttt ctctacacca tctgtctcct tntcttacat tgcccaagaa 1740  
taaatgcatt ag 1752

&lt;210&gt; 18

&lt;211&gt; 1071

<212> DNA

<213> Adenoviridae

<220>

<221> misc\_feature

<223> /note="Ad5/fib16 chimeric fiber"

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<400> 18
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ctccaactta aagttggaag cagtcttaca gtagatacta tcgatgggtc tttggaggaa 240
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<210> 19  
<211> 1101  
<212> DNA  
<213> Adenoviridae  
<220>  
<221> misc\_feature  
<223> /note="Ad5/fib28 chimeric fiber"

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aaagagtact ggaactttag aaacaatgat tctactgtgt ctggaaaata tgaaaatgct 840  
gttccgttca tgcctaacat aacagcttat aaaccctgca attctaaaag ctatgccaga 900

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agtcacatat ttggaatgt atatattgct gctaagccat ataatccagt gggtattaaa 960
attagcttca atcaagagac aaaaaacaat tgtgtctatt ctatatcatt tgactacact 1020
tgctctaaag agtatacagg tatgcaattc gatgttacat ctttcacctt ctcctatata 1080
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<210> 20

<211> 1668

<212> DNA

<213> Adenoviridae

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<223> /note="Ad5/fib40-L chimeric fiber"

<220>

<221> misc\_feature

<222> (1588)..(1588)

<223> n can be any nucleotide

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ggcttgcaag aaaaacctcc gggagtcctc agcctgaaat aactgatcc acttacaacc 180
aaaaacgggg ctttaacctt aaaattgggc acgggactaa acattgataa aaatggagat 240
ctttcttcag atgctagcgt ggaagttagc gccctatca ctaaaaccaa caaatcgta 300
ggtttaaatt acactaagcc tctcgtctcg caaaataacg cgcttactct ttcttacaac 360

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gcgcctttaa acgtagtaaa taataattta gctctaaata tgtcacagcc tgttactatt 420  
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cttcgccttc gaagtgatgc acctcttgga ctagtagaca aaacactaaa ggttttgttt 540  
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gcaatagaag gctactcatt aaaattcncc tggcgcgttc gaaataatga acgttttgac 1620  
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<210> 21  
<211> 1062  
<212> DNA  
<213> Adenoviridae  
<220>  
<221> misc\_feature  
<223> /note="Adenovirus16 fiber sequence"

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agcccagatg gagttctaac tcttaaatgt gttaatccac tcaactaccg cagcggaccc 180  
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ctaaaagtta ctgtcacact aaacagacgt atgttagctt ctggaatggc ctatgctatg 960

aatttttcat ggtctctaaa tgcagaggaa gccccggaaa ctaccgaagt cactctcatt 1020  
acctccccct tcttttttct ttatacaga gaagatgact ga 1062

<210> 22

<211> 1074

<212> DNA

<213> Adenoviridae

<220>

<221> misc\_feature

<223> /note="Adenovirus5/chimeric fiber16 sequence"

<400> 22

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ggttttgcac aaagcccaga tggagttcta actcttaaat gtgttaatcc actcactacc 180  
gccagcggac ccctccaact taaagttgga agcagtcctta cagtagatac tatcgatggg 240  
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ttattaatag gatctggcctt gcaaacaaag gatgataaac ttgttttacc gctgggagat 360  
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aatgatgtac tatgtgcaa actaggacat ggccttggtt ttgactcttc caatgctatc 480  
accatagaaa acaacacctt gtggacaggc gcaaaaccaa ggcccaactg tgtaattaaa 540  
gagggagaag attccccaga ctgtaagctc actttagtgc tagtgaagaa tggaggactg 600  
ataaatggat acataacatt aatgggagcc tcagaatata ctaacacctt gtttaaaaac 660  
aatcaagtta caatcgatgt aaacctcgca ttgataata ctggcctaact tattacttac 720  
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ataaccagtg ccaaagggtt catgcccagc accaccgcct atccatttat aacatacgcc 840  
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 actctctttc cactaaaagt tactgtcaca ctaaacagac gtatgttagc ttctggaatg 960  
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<210> 23

<211> 353

<212> PRT

<213> Adenoviridae

<220>

<221> misc\_feature

<223> /note="Adenovirus16 fiber protein sequence"

<400> 23

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65					70					75				80	
Asn	Ile	Thr	Ala	Ala	Ala	Pro	Leu	Thr	Lys	Thr	Asn	His	Ser	Ile	Gly
				85					90					95	

Leu Leu Ile Gly Ser Gly Leu Gln Thr Lys Asp Asp Lys Leu Cys Leu  
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 Ser Leu Gly Asp Gly Leu Val Thr Lys Asp Asp Lys Leu Cys Leu Ser  
 115 120 125  
 Leu Gly Asp Gly Leu Ile Thr Lys Asn Asp Val Leu Cys Ala Lys Leu  
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 Gly His Gly Leu Val Phe Asp Ser Ser Asn Ala Ile Thr Ile Glu Asn  
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 Asn Thr Leu Trp Thr Gly Ala Lys Pro Ser Ala Asn Cys Val Ile Lys  
 165 170 175  
 Glu Gly Glu Asp Ser Pro Asp Cys Lys Leu Thr Leu Val Leu Val Lys  
 180 185 190  
 Asn Gly Gly Leu Ile Asn Gly Tyr Ile Thr Leu Met Gly Ala Ser Glu  
 195 200 205  
 Tyr Thr Asn Thr Leu Phe Lys Asn Asn Gln Val Thr Ile Asp Val Asn  
 210 215 220  
 Leu Ala Phe Asp Asn Thr Gly Gln Ile Ile Thr Tyr Leu Ser Ser Leu  
 225 230 235 240  
 Lys Ser Asn Leu Asn Phe Lys Asp Asn Gln Asn Met Ala Thr Gly Thr  
 245 250 255  
 Ile Thr Ser Ala Lys Gly Phe Met Pro Ser Thr Thr Ala Tyr Pro Phe  
 260 265 270  
 Ile Thr Tyr Ala Thr Glu Thr Leu Asn Glu Asp Tyr Ile Tyr Gly Glu  
 275 280 285  
 Cys Tyr Tyr Lys Ser Thr Asn Gly Thr Leu Phe Pro Leu Lys Val Thr  
 290 295 300  
 Val Thr Leu Asn Arg Arg Met Leu Ala Ser Gly Met Ala Tyr Ala Met  
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Asp

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Tyr Glu Asp Glu Ser Ser Ser Gln His Pro Phe Ile Asn Pro Gly Phe  
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Ile Ser Ser Asn Gly Phe Ala Gln Ser Pro Asp Gly Val Leu Thr Leu  
 35 40 45

Lys Cys Val Asn Pro Leu Thr Thr Ala Ser Gly Pro Leu Gln Leu Lys  
 50 55 60

Val Gly Ser Ser Leu Thr Val Asp Thr Ile Asp Gly Ser Leu Glu Glu  
 65 70 75 80

Asn Ile Thr Ala Glu Ala Pro Leu Thr Lys Thr Asn His Ser Ile Gly  
 85 90 95

Leu Leu Ile Gly Ser Gly Leu Gln Thr Lys Asp Asp Lys Leu Cys Leu  
 100 105 110  
 Ser Leu Gly Asp Gly Leu Val Thr Lys Asp Asp Lys Leu Cys Leu Ser  
 115 120 125  
 Leu Gly Asp Gly Leu Ile Thr Lys Asn Asp Val Leu Cys Ala Lys Leu  
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 Gly His Gly Leu Val Phe Asp Ser Ser Asn Ala Ile Thr Ile Glu Asn  
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 Asn Thr Leu Trp Thr Gly Ala Lys Pro Ser Ala Asn Cys Val Ile Lys  
 165 170 175  
 Glu Gly Glu Asp Ser Pro Asp Cys Lys Leu Thr Leu Val Leu Val Lys  
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 Asn Gly Gly Leu Ile Asn Gly Tyr Ile Thr Leu Met Gly Ala Ser Glu  
 195 200 205  
 Tyr Thr Asn Thr Leu Phe Lys Asn Asn Gln Val Thr Ile Asp Val Asn  
 210 215 220  
 Leu Ala Phe Asp Asn Thr Gly Gln Ile Ile Thr Tyr Leu Ser Ser Leu  
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 Lys Ser Asn Leu Asn Phe Lys Asp Asn Gln Asn Met Ala Thr Gly Thr  
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 Cys Tyr Tyr Lys Ser Thr Asn Gly Thr Leu Phe Pro Leu Lys Val Thr  
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 Val Thr Leu Asn Arg Arg Met Leu Ala Ser Gly Met Ala Tyr Ala Met  
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 Asn Phe Ser Trp Ser Leu Asn Ala Glu Glu Ala Pro Glu Thr Thr Glu  
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Val Thr Leu Ile Thr Ser Pro Phe Phe Phe Ser Tyr Ile Arg Glu Asp  
340 345 350

Asp